IN THE CLAIMS:

1. **(Cancelled)**

2. **(Currently Amended) An omnidirectional visual camera comprising:**

a reflecting member ~~including~~ comprising:

a ~~rotating~~ rotationally symmetric surface portion ~~having~~ comprising a convex surface of a ~~rotating~~ secondary rotationally symmetric curved surface~~,~~ ;

a cylindrical portion having ~~a~~ cylindrical ~~shape~~ walls surrounding said rotationally symmetric surface portion and ~~having~~ a ~~rotating center~~ cylindrical axis of rotation substantially ~~virtually~~ aligning with ~~a rotating~~ an axis of rotation of said rotationally symmetric ~~rotating~~ surface, and having a cylindrical inner diameter larger than an outer diameter of said rotationally symmetric~~rotating~~ surface portion~~,~~ ; and

a connection section for connecting one longitudinal end of said cylindrical portion ~~and~~ with the outer diameter portion of said rotationally symmetric~~rotating~~ surface portion~~,~~ ;

said rotationally symmetric~~rotating~~ surface portion, said cylindrical portion, and said connection section being integrally molded of a transparent material,

~~the projecting surface of~~ said rotationally symmetric~~rotating~~ surface portion ~~being processed into~~comprising a mirror surface; and

a camera having an optical axis substantially aligning with the ~~rotating center~~ axis rotation of said reflecting member and installed opposite to the convex surface of said rotationally symmetric~~rotating~~ surface portion,

said camera located for picking up a reflected image reflected from the convex surface of the rotationally symmetric~~rotating~~ surface portion of said reflecting member.

3.-4. (Cancelled)

5. (Currently Amended) The omnidirectional visual camera according to Claim ~~1~~2, wherein one end surface of the cylindrical portion to which the rotationally symmetric ~~rotating~~ surface portion is connected has a smaller diameter than the other end thereof.